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## NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

02/26/2009

MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101 EXAMINER

HAMO, PATRICK

ART UNIT PAPER NUMBER

3746

DATE MAILED: 02/26/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	10/812,763	03/29/2004	Yoshiyuki Nakane	5095-4085	7323

TITLE OF INVENTION: COMPRESSOR WITH TWO COOLING CHAMBERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat		ng the Patent, advance on herwise in Block 1, by (a	rders and notification of many specifying a new corresponding to the cor	naintenance fees wi pondence address;	ll be i and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
		ock 1 for any change of address)	Fee(	s) Transmittal. This rs. Each additional	certifi paper,	icate cannot be used fo	domestic mailings of the or any other accompanying at or formal drawing, must
	7590 02/26. FINNEGAN, L.L.I ANCIAL CENTER Y 10281-2101			Carti	ficate	of Mailing or Transr	nission deposited with the United t class mail in an envelope above, or being facsimile te indicated below.
							(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOI	RNEY DOCKET NO.	CONFIRMATION NO.
10/812,763 ITTLE OF INVENTION	03/29/2004 : COMPRESSOR WITH	I TWO COOLING CHAN	Yoshiyuki Nakane MBERS			5095-4085	7323
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nonprovisional	NO	\$1510	\$300	\$0	\$0		05/26/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
HAMO, P	ATRICK	3746	417-313000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.	ess an assignee is identi n in 37 CFR 3.11. Comp	" Indication form led. Use of a Customer A TO BE PRINTED ON T	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be particularly (print or type data will appear on the part a substitute for filing an a (B) RESIDENCE: (CITY)	rely, e firm (having as a regent) and the name: neys or agents. If no printed. e) ttent. If an assigned assignment.	members of upon name	er a 2 o to e is 3 entified below, the do	cument has been filed for
			rinted on the patent): $\Box$				<u> </u>
	re submitted:  o small entity discount p  f of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
a. Applicant claims	t <b>us</b> (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long				
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Authorized Signature				Date			
This collection of information application. Confident submitting the completed this form and/or suggestion 1450. Alexandria V	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	on is required to obtain or re 1.14. This collection is esti depending upon the indivi e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 m idual case. Any con r, U.S. Patent and T ) THIS ADDRESS	e publi inutes nments radem	ic which is to file (and to complete, including s on the amount of tin ark Office, U.S. Depa D.TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450.

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10/812,763		03/29/2004	Yoshiyuki Nakane	5095-4085	7323	
27123	27123 7590 02/26/2009				INER	
MORGAN & F	INNEG.	AN, L.L.P.	HAMO, PATRICK			
3 WORLD FINANCIAL CENTER				ART UNIT	PAPER NUMBER	
NEW YORK, NY 10281-2101				3746		
				DATE MAILED: 02/26/2009		

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 767 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 767 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/812,763	NAKANE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DATRICK HAMO	3746	
	PATRICK HAMO	3746	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED ) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due cours	
1. $\boxtimes$ This communication is responsive to <u>amendments filed or</u>	<u>11/24/08</u> .		
2. ☑ The allowed claim(s) is/are <u>1-23</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents hav</li> </ul>		or (f).	
2. Certified copies of the priority documents hav		on No	
3. Copies of the certified copies of the priority do	ocuments have been receive	ed in this national stage application fr	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirer	nents
4. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ıst be submitted.		
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_·		
<ul><li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li></ul>	's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachment(s)	5 □ Nation of I	nformal Datant Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		nformal Patent Application Summary (PTO-413),	
, , ,	Paper No	./Mail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>11/24/08</u></li> </ol>	_	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowand	:e
-	9. 🔲 Other	<u></u> ·	
	/Devon C Kra Supervisory Pa	mer/ atent Examiner, Art Unit 3746	

### **DETAILED ACTION**

This action is in response to amendments filed on November 24, 2008.

Claims 1-23 are allowed.

The following is an examiner's statement of reasons for allowance:

Independent claim 1 recites limitations that restrict the cooling medium in both cooling chambers to be the same and restricts the chambers to an orientation that locates the first cooling chamber between the medium passage, which is inside the second cooling chamber, and the compression chamber. These are non-obvious modifications of the prior art as cited in the prior rejections and of the closest related prior art of Kollberg et al., US 2,150,122, respectively. Unlike Laskey, the present invention uses a single cooling medium and arranges the cooling chambers to minimize heat transmission from the discharged gas to the chamber cooling the compression chamber. While Kollberg teaches the same cooling medium for both chambers, it fails to anticipate the heat restraining teaching of the present invention by placing the chambers in the inventive orientation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 3746

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PATRICK HAMO whose telephone number is (571)272-3492. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

/Patrick Hamo/ Patent Examiner, AU 3746